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1. arXiv:2212.07863 [pdf] astro-ph.IM astro-ph.EP

Trends in Planetary Science research in the Puna and Atacama desert regions: under-representation of local scientific institutions?

Authors: Adrien Tavernier, Gabriel Pinto, Millarca Valenzuela, Ayon Garcia, Christopher Ulloa, Romulo Oses, Bernard Foing

Abstract: ...the Altiplano or the Atacama Desert with objectives related to planetary science or astrobiology do not include any local institutional partner (Argentina, Bolivia, Chile and **Peru**). Indeed, and beyond the ethical questioning of international collaborations, Latin-American planetary science deserve a strategic structuring, networking, as well as a road map a... ▽ More

Submitted 15 December, 2022; **originally announced** December 2022.

2. arXiv:2212.00400 [pdf, ps, other] nucl-th

A new three-ranged Gogny interaction in touch with pion exchange

Authors: L. Batail, D. Davesne, S. Péru, P. Becker, A. Pastore, J. Navarro

Abstract: We present a new Gogny-type finite-range effective interaction including a third Gaussian in the central term. Based on simple arguments valid for an arbitrary radial form factor, the three ranges are fixed from physical grounds, relating them to one-boson exchange interactions. Moreover, some parameters of the longest range are fixed through the G-matrix elements of the One Pion Exchange Potentia... ▽ More

Submitted 1 December, 2022; **originally announced** December 2022.

3. arXiv:2211.09342 [pdf, other] cs.CV cs.AI

I see you: A Vehicle-Pedestrian Interaction Dataset from Traffic Surveillance Cameras

Authors: Hanan Quispe, Jorshinno Sumire, Patricia Condori, Edwin Alvarez, Harley Vera

Abstract: ...of trajectory data in near-accident scenarios using YOLOv5 and camera calibration methods. I see you consist of 170 near-accident occurrences in seven intersections in Cusco-**Peru**. This new dataset and pipeline code are available on Github. ▽ More

Submitted 17 November, 2022; **originally announced** November 2022.

Comments: paper accepted at LXAI workshop at NeurIPS 2022, github repository https://github.com/hvzzzz/Vehicle_Trajectory_Dataset
MSC Class: I.2.10; I.4.8

4. arXiv:2211.05901 [pdf, other] physics.hist-ph astro-ph.IM

Archaeoastronomical study on the north-central coast of Peru

Authors: Jose Ricra, Alejandro Gangui

Abstract: The Caral civilization developed on the north-central coast of **Peru** and had an occupation period between 2870 and 1970 years BC. The first studies carried out in the field of archaeoastronomy showed evidence of possible astronomical orientations in some buildings of its capital city, the Ciudad Sagrada de Caral. However, methodological issues cast doubt on t... ▽ More

Submitted 10 November, 2022; **originally announced** November 2022.

Comments: Article in Spanish. Paper presented at The 63rd meeting of the Argentine Astronomical Society, held in Cordoba, Argentina, 25-29 October 2021

5. arXiv:2210.06611 [pdf, other] econ.GN

Proximity, Similarity, and Friendship Formation: Theory and Evidence

Authors: A. Arda Gitmez, Román Andrés Zárate

Abstract: ...more friendships between dissimilar than similar individuals, in opposition to a preference-driven version of the model. We use an experiment at selective boarding schools in **Peru** that generates random variation in the physical proximity between students to test these predictions. The empirical evidence is consistent with the learning model: while social net... ▽ More

Submitted 12 October, 2022; **originally announced** October 2022.

6. arXiv:2210.00122 [pdf, other] cs.LG cs.AI cs.CL

Adversarial Robustness of Representation Learning for Knowledge Graphs

Authors: Peru Bhardwaj

Abstract: Knowledge graphs represent factual knowledge about the world as relationships between concepts and are critical for intelligent decision making in enterprise applications. New knowledge is inferred from the existing facts in the knowledge graphs by encoding the concepts and relations into low-dimensional feature vector representations. The most effective representations for this task, called Knowl... ▽ More

Submitted 30 September, 2022; **originally announced** October 2022.

Comments: PhD Thesis at Trinity College Dublin, Ireland

Report number: http://www.tara.tcd.ie/handle/2262/101176

7. arXiv:2208.08246 [pdf, other] cond-mat.str-el

An Exact Chiral Amorphous Spin Liquid

Authors: Gino Cassella, Peru D'Ornellas, Thomas Hodson, Willian M. H. Natori, Johannes Knolle

Abstract: Topological insulator phases of non-interacting particles have been generalized from periodic crystals to amorphous lattices, which raises the question whether topologically ordered quantum many-body phases may similarly exist in amorphous systems? Here we construct a soluble chiral amorphous quantum spin liquid by extending the Kitaev honeycomb model to random lattices with fixed coordination num... ▽ More

Submitted 25 August, 2022; **v1** submitted 17 August, 2022; **originally announced** August 2022.

Comments: 5 pages, 3 figures

8. arXiv:2208.01593 [pdf, other] stat.AP stat.ME

Estimating the prevalence of anemia rates among children under five in Peruvian districts with a small sample size

Authors: Anna Sikov, Jose Cerda-Hernandez

Abstract: ...we attempt to answer the following question: ``Is it possible to obtain reliable estimates for the prevalence of anemia rates in children under five years in the districts of **Peru**?'' Specifically, the interest of the present paper is to understand to which extent employing the basic and the spatial Fay-Herriot models can compensate for inadequate sam... ▽ More

Submitted 2 August, 2022; **originally announced** August 2022.

Comments: 26 pages, 7 figures

MSC Class: 62D05; 62F40; 62P25

9. arXiv:2207.05498 [pdf, ps, other] cs.CL

Huqariq: A Multilingual Speech Corpus of Native Languages of Peru for Speech Recognition

Authors: Rodolfo Zevallos, Luis Camacho, Nelsi Melgarejo

Abstract: ...of speech from native Peruvian languages. The transcribed corpus is intended for the research and development of speech technologies to preserve endangered languages in **Peru**. Huqariq is primarily designed for the development of automatic speech recognition, language identification and text-to-speech tools. In order to achieve corpus collection sustainably, w... ▽ More

Submitted 12 July, 2022; **originally announced** July 2022.

Comments: Language Resources and Evaluation Conference (LREC 2022)

10. arXiv:2207.01389 [pdf, other] cond-mat.str-el cond-mat.dis-nn cond-mat.mes-hall

doi 10.1103/PhysRevB.106.155124

Quantised Bulk Conductivity as a Local Chern Marker

Authors: Peru d'Ornellas, Ryan Barnett, Derek K. K. Lee

Abstract: A central property of Chern insulators is the robustness of the topological phase and edge states to impurities in the system. Despite this, Chern number cannot be straightforwardly calculated in the presence of disorder. Recently, work has been done to propose a local analog of the Chern number, called local markers, that can be used to characterise disordered systems. However, it was unclear whe... ▽ More

Submitted 14 October, 2022; **v1** submitted 4 July, 2022; **originally announced** July 2022.

Comments: 10 pages, 9 figures

11. arXiv:2206.10343 [pdf, other] cs.CL

Building an Endangered Language Resource in the Classroom: Universal Dependencies for Kakataibo

Authors: Roberto Zariquiey, Claudia Alvarado, Ximena Echevarria, Luisa Gomez, Rosa Gonzales, Mariana Illescas, Sabina Oporto, Frederic Blum, Arturo Oncevay, Javier Vera

Abstract: In this paper, we launch a new Universal Dependencies treebank for an endangered language from Amazonia: Kakataibo, a Panoan language spoken in **Peru**. We first discuss the collaborative methodology implemented, which proved effective to create a treebank in the context of a Computational Linguistic course for undergraduates. Then, we describe the general deta... ▽ More

Submitted 21 June, 2022; **originally announced** June 2022.

Comments: Accepted to LREC 2022

12. arXiv:2204.06100 [pdf, other] nucl-th doi 10.1088/1742-6596/2340/1/012033

Towards a Predictive HFB+QRPA Framework for Deformed Nuclei: Selected Tools and Technique

Authors: Emanuel V. Chimanski, Eun Jin In, Jutta E. Escher, Sophie Péru, Walid Younes

Abstract: Reliable predictions of the static and dynamic properties of a nucleus require a fully microscopic description of both ground and excited states of this complicated many-body quantum system. Predictive calculations are key to understanding such systems and are important ingredients for simulating stellar environments and for enabling a variety of contemporary nuclear applications. Challenges that... ▽ More

Submitted 12 April, 2022; **originally announced** April 2022.

Comments: Contribution to the XLIV Brazilian Workshop on Nuclear Physics, Brazil

13. arXiv:2201.07401 [pdf, other] math.ST stat.ML

Multiway Spherical Clustering via Degree-Corrected Tensor Block Models

Authors: Jiaxin Hu, Miaoyan Wang

Abstract: ...exact clustering under mild signal conditions. The efficacy of our procedure is demonstrated through two data applications, one on human brain connectome project, and another on **Peru** Legislation network dataset. ▽ More

Submitted 18 January, 2022; **originally announced** January 2022.

14. arXiv:2201.04289 [pdf] q-bio.OT

Effect of an antimicrobial association (Respirend-M) on productive performance of broilers

Authors: Mario Chuy, Marcial Cumpa, Diego Martinez

Abstract: The objective of this study was to determine the effect of feeding an antimicrobial association to males broiler chickens from 0 to 14 days of age on the performance and clinical signs of bacterial processes. Two treatments were tested: a control treatment without Respirend-M, and a treatment with the antimicrobial (300 g/t Respirend-M, 0-14 d). 398 male Cobb 500 chicks were randomly assigned to t... ▽ More

Submitted 11 January, 2022; **originally announced** January 2022.

Comments: in Spanish

Journal ref: Proceedings of the III AMEVEA-**Peru** International Seminar and I Scientific Meeting. 2005. Lima, **Peru**

15. arXiv:2112.06704 [pdf, other] cs.SI cs.LG doi 10.3390/app12178580

Land use identification through social network interaction

Authors: Diana C. Pauca-Quispe, Cinthya Butron-Revilla, Ernesto Suarez-Lopez, Karla Aranibar-Tila, Jesus S. Aguilar-Ruiz

Abstract: ...coordinates associated with the publication. Context-specific innovations are introduced to deal with data across South America and, in particular, in the city of Arequipa, **Peru**. The objective is to identify the five main land uses: residential, commercial, institutional-governmental, industrial-offices and unbuilt land. Within the framework of urban plannin... ▽ More

Submitted 5 December, 2021; **originally announced** December 2021.

16. arXiv:2111.06345 [pdf, other] cs.LG cs.AI cs.CL cs.NE doi 10.18653/v1/2021.acl-long.147

Poisoning Knowledge Graph Embeddings via Relation Inference Patterns

Authors: Peru Bhardwaj, John Kelleher, Luca Costabello, Declan O'Sullivan

Abstract: We study the problem of generating data poisoning attacks against Knowledge Graph Embedding (KGE) models for the task of link prediction in knowledge graphs. To poison KGE models, we propose to exploit their inductive abilities which are captured through the relationship patterns like symmetry, inversion and composition in the knowledge graph. Specifically, to degrade the model's prediction confid... ▽ More

Submitted 11 November, 2021; **originally announced** November 2021.

Comments: Joint Conference of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (ACL-IJCNLP 2021)

17. arXiv:2111.03120 [pdf, other] cs.LG cs.AI cs.CL cs.NE

Adversarial Attacks on Knowledge Graph Embeddings via Instance Attribution Methods

Authors: Peru Bhardwaj, John Kelleher, Luca Costabello, Declan O'Sullivan

Abstract: Despite the widespread use of Knowledge Graph Embeddings (KGE), little is known about the security vulnerabilities that might disrupt their intended behaviour. We study data poisoning attacks against KGE models for link prediction. These attacks craft adversarial additions or deletions at training time to cause model failure at test time. To select adversarial deletions, we propose to use the mode... ▽ More

Submitted 4 November, 2021; **originally announced** November 2021.

Comments: 2021 Conference on Empirical Methods in Natural Language Processing (EMNLP 2021)

18. arXiv:2110.02581 [pdf] physics.hist-ph doi 10.1017/laq.2020.88

The River and the Sky: Astronomy and Topography in Caral Society, America's First Urban Centers

Authors: A. César González-García, Aldemar Crispín, Ruth Shady Solís, José Ricra, Felipe Criado-Boado, Juan A. Belmonte

Abstract: America's first urban centres were allegedly located at the Supe Valley sites in **Peru**. After investigating the location and the orientation of the main built structures, we show that it is not only the presence of the River Supe that determines their orientation but also astronomical relationships within the orientation of the buildings dictate their set... ▽ More

Submitted 6 October, 2021; **originally announced** October 2021.

Comments: 44 pages, 8 figures, 1 table

Journal ref: Latin American Antiquity 32(1), 2021, 154-172

19. arXiv:2109.11945 [pdf] physics.ed-ph

CosmoAmautas: Astrophysics in the high school classroom

Authors: Gabriela Calistro Rivera, Daniella Bardalez Gagliuffi, Diego Alvarado Urrunaga, Esly Calcina, Santiago Casas, Lisseth Gonzales Quevedo, Adita Quispe Quispe, Jenny Margot Ramos Lázaro, José Ricra, Bruno Rodríguez Marquina, Erika Torre Ramirez

Abstract: …teacher-training workshop CosmoAmautas, which took place in May and June 2021. CosmoAmautas (amauta = teacher in the Quechua language) is an astronomy education project in **Peru**, funded by the IAU Office of Astronomy for Development. For more information, please visit www.cosmoamautas.org. ▽ More

Submitted 25 August, 2021; **originally announced** September 2021.

Comments: 164 pages, in Spanish. We acknowledge the support of the IAU Office of Astronomy for Development, which is a joint project of the International Astronomical Union (IAU) and the South African National Research Foundation (NRF) with the support of the Department of Science and Innovation (DSI)

20. arXiv:2109.07468 [pdf, other] physics.ao-ph cs.LG

Computationally-Efficient Climate Predictions using Multi-Fidelity Surrogate Modelling

Authors: Ben Hudson, Frederik Nijweide, Isaac Sebenius

Abstract: …Climate Model (GCM) and those of a high-fidelity Regional Climate Model (RCM) to produce high-fidelity temperature predictions for a mountainous region on the coastline of **Peru**. We are able to produce high-fidelity temperature predictions at significantly lower computational cost compared to the high-fidelity model alone: our predictions have an average erro… ▽ More

Submitted 3 August, 2021; **originally announced** September 2021.

Comments: Submitted to CDCEO 2021 (1st Workshop on Complex Data Challenges in Earth Observation)

ACM Class: I.2.6; J.2

21. arXiv:2108.09761 [pdf] cs.CY

Women's Solidarity and Social Media: Sisterhood Concept in #LasRespondonas, a Facebook group in Peru

Authors: Juan Bossio, Illari Diez

Abstract: Women in **Peru** are exposed daily to gender violence and exclusion. Several feminist groups have used social media to share information, debate, denounce, organize, and provide help to victims. This contribution analyzes the meaning of female solidarity, sisterhood or sororidad, as a feminist political concept among members of one feminist Facebook group. We r… ▽ More

Submitted 22 August, 2021; **originally announced** August 2021.

Comments: In proceedings of the 1st Virtual Conference on Implications of Information and Digital Technologies for Development, 2021

22. arXiv:2107.02781 [pdf, other] astro-ph.IM physics.ed-ph

Inclusive Astronomy in Peru: Contribution of Astronomy Teaching for Visually Impaired People

Authors: Alexis Rodriguez Quiroz, Kevin Vidal Céspedes, María Argudo-Fernández

Abstract: …are available today to bring this knowledge closer to the minorities in our country like visually impaired people. Because of this problem, the AstroBVI project arrived in **Peru** for the first time, thanks to the distribution of tactile images of 3D galaxies that were delivered to us from the Centro de Astronomía de la Universidad de Antofagasta of the and f… ▽ More

Submitted 6 July, 2021; **originally announced** July 2021.

Comments: 6 pages, 8 figures

23. arXiv:2106.04906 [pdf] cs.NI cs.CY cs.ET econ.GN

Engineering-Economic Evaluation of Diffractive Non-Line-Of-Sight Backhaul (e3nb): A Techno-economic Model for 3D Wireless Backhaul Assessment

Authors: Edward J. Oughton, Erik Boch, Julius Kusuma

Abstract: …the impact of different wireless backhaul strategies. This framework is applied to assess both Clear-Line-Of-Sight and diffractive Non-Line-Of-Sight strategies for deployment in **Peru**, as well as the islands of Kalimantan and Papua, in Indonesia. The results find that a hybrid strategy combining the use of Clear-Line-Of-Sight and diffractive Non-Line-Of-Sight… ▽ More

Submitted 9 December, 2021; **v1** submitted 9 June, 2021; **originally announced** June 2021.

24. arXiv:2105.08510 [pdf, other] cs.CY

Study of a Hybrid Photovoltaic-Wind Smart Microgrid using Data Science Approach

Authors: Josimar Edinson Chire Saire, José Armando Gastelo Roque, Franco Canziani

Abstract: In this paper, a smart microgrid implemented in Paracas, Ica, **Peru**, composed of 6kWp PV + 6kW Wind and that provides electricity to a rural community of 40 families, was studied using a data science approach. Real data of solar irradiance, wind speed, energy demand, and voltage of the battery bank from 2 periods of operation were studied to find patterns, se... ▽ More

Submitted 13 May, 2021; **originally announced** May 2021.

25. arXiv:2104.14091 [pdf, other] stat.ME math.ST

Doubly robust capture-recapture methods for estimating population size

Authors: Manjari Das, Edward H. Kennedy, Nicholas P. Jewell

Abstract: …near-validity. Finally, we study our methods in simulations, and apply them to estimate the number of killings and disappearances attributable to different groups in **Peru** during its internal armed conflict between 1980 and 2000. ▽ More

Submitted 31 July, 2021; **v1** submitted 28 April, 2021; **originally announced** April 2021.

Comments: 20 pages, 7 figures

26. arXiv:2104.01071 [pdf, other] eess.IV cs.CV

Prediction of Tuberculosis using U-Net and segmentation techniques

Authors: Dennis Núñez-Fernández, Lamberto Ballan, Gabriel Jiménez-Avalos, Jorge Coronel, Patricia Sheen, Mirko Zimic

Abstract: One of the most serious public health problems in **Peru** and worldwide is Tuberculosis (TB), which is produced by a bacterium known as Mycobacterium tuberculosis. The purpose of this work is to facilitate and automate the diagnosis of tuberculosis using the MODS method and using lens-free microscopy, as it is easier to calibrate and easier to use by untrained... ▽ More

Submitted 2 April, 2021; **originally announced** April 2021.

Comments: AI for Public Health Workshop at ICLR 2021. arXiv admin note: text overlap with arXiv:2007.02482

27. arXiv:2103.15183 [pdf, other] econ.GN

How has labour market power evolved? Comparing labour market monopsony in Peru and the United States

Authors: Jorge Davalos, Ekkehard Ernst

Abstract: …the ten-year time span of our data. In contrast to findings of labour market power in developed countries such as the US, we document significant market power of employers in **Peru** vis-à-vis the tertiary educated workforce, regardless of age and sector. In contrast, for the primary educated workforce, market power seems to be high in (private) services and ma... ▽ More

Submitted 28 March, 2021; **originally announced** March 2021.

28. arXiv:2103.14647 [pdf, ps, other] physics.pop-ph physics.hist-ph

Did a Series of Solar Eclipses Inspire the Nazca Lines?

Authors: Emil Khalisi

Abstract: The mysterious lines in the desert of Nazca in southern **Peru** received many attempts at an explanation. We discuss the possibility that their origin is based on solar eclipses which could have evoked some kind of "reaction" by the inhabitants. In the mid-4th century BCE, six very conspicuous events within 20 years occurred over that area. The climax w... ▽ More

Submitted 26 March, 2021; **originally announced** March 2021.

Comments: 7 pages, 4 figs, 1 table, 16 refs

Journal ref: Habilitation at the University of Heidelberg, Germany, February 2020

29. arXiv:2103.10057 [pdf, other] cs.RO cs.HC doi 10.1109/TNS.2021.3122452

Immersive Operation of a Semi-Autonomous Aerial Platform for Detecting and Mapping Radiation

Authors: P. Dayani, N. Orr, A. Thomopoulos, V. Saran, S. Krishnaswamy, E. Zhang, N. Hu, D. McPherson, J. Menke, A. Yang, K. Vetter

Abstract: Recent advancements in radiation detection and computer vision have enabled small unmanned aerial systems (sUASs) to produce 3D nuclear radiation maps in real-time. Currently these state-of-the-art systems still require two operators: one to pilot the sUAS and another operator to monitor the detected radiation. In this work we present a system that integrates real-time 3D radiation visualization w… ▽ More

Submitted 18 March, 2021; **originally announced** March 2021.

Comments: 3 pages, 2 figures. The first three authors contributed equally. Accepted to the 2020 IEEE Nuclear Science Symposium & Medical Imaging Conference

30. **arXiv:2103.06360** **[pdf]** eess.IV cs.CV

A Computed Tomography Vertebral Segmentation Dataset with Anatomical Variations and Multi-Vendor Scanner Data

Authors: Hans Liebl, David Schinz, Anjany Sekuboyina, Luca Malagutti, Maximilian T. Löffler, Amirhossein Bayat, Malek El Husseini, Giles Tetteh, Katharina Grau, Eva Niederreiter, Thomas Baum, Benedikt Wiestler, Bjoern Menze, Rickmer Braren, Claus Zimmer, Jan S. Kirschke

Abstract: …dataset. Building on that experience, we report on the largely increased VerSe 2020 dataset and results from the second iteration of the VerSe challenge (MICCAI 2020, Lima, **Peru**). VerSe 2020 comprises annotated spine computed tomography (CT) images from 300 subjects with 4142 fully visualized and annotated vertebrae, collected across multiple centres from fo… ▽ More

Submitted 10 March, 2021; **originally announced** March 2021.

Comments: 18 pages, 2 figures, 2 tables; Hans Liebl, David Schinz equally contributed to this manuscript

31. **arXiv:2101.08575** **[pdf, ps, other]** astro-ph.SR doi 10.1093/pasj/psab006

A Three-Dimensional Velocity of an Erupting Prominence Prior to a Coronal Mass Ejection

Authors: Maria V. Gutierrez, Kenichi Otsuji, Ayumi Asai, Raul Terrazas, Mutsumi Ishitsuka, Jose Ishitsuka, Naoki Nakamura, Yusuke Yoshinaga, Satoshi Morita, Takako T. Ishii, Satoru UeNo, Reizaburo Kitai, Kazunari Shibata

Abstract: …images of the flare and filament ejection were successfully obtained by the Flare Monitoring Telescope (FMT) following its relocation to Ica University, **Peru**. Multiwavelength observation around the Hα line enabled us to derive the 3D velocity field of the Hα prominence eruption. Features in extreme ultraviolet were also obtained by the Atmospheric Image… ▽ More

Submitted 21 January, 2021; **originally announced** January 2021.

Comments: 17 pages, 9 figures; accepted for publication in PASJ

32. **arXiv:2101.07820** **[pdf]** econ.GN cs.CY cs.NI

Policy choices can help keep 4G and 5G universal broadband affordable

Authors: Edward J Oughton, Niccolò Comini, Vivien Foster, Jim W Hall

Abstract: …and demand forecasting, least-cost network designs are developed for eight representative low and middle-income countries (Malawi, Uganda, Kenya, Senegal, Pakistan, Albania, **Peru** and Mexico), the results from which form the basis for aggregation to the global level. The cost of meeting a minimum 10 Mbps per user is estimated at USD 1.7 trillion using 5G Non-… ▽ More

Submitted 19 February, 2021; **v1** submitted 19 January, 2021; **originally announced** January 2021.

33. **arXiv:2101.03467** **[pdf, other]** q-bio.QM physics.soc-ph doi 10.1007/s10654-021-00748-2

Using excess deaths and testing statistics to improve estimates of COVID-19 mortalities

Authors: Lucas Böttcher, Maria D'Orsogna, Tom Chou

Abstract: …number of reported COVID-19 deaths. In some areas, such as New York City, the number of weekly deaths is about eight times higher than in previous years. Other countries such as **Peru**, Ecuador, Mexico, and Spain exhibit excess deaths significantly higher than their reported COVID-19 deaths. Conversely, we find negligible or negative excess deaths for part and… ▽ More

Submitted 9 January, 2021; **originally announced** January 2021.

Journal ref: Eur. J. Epidemiol. 36, 545--558 (2021)

34. **arXiv:2012.05294** **[pdf, other]** q-bio.PE stat.AP stat.CO

A modified Susceptible-Infected-Recovered model for observed under-reported incidence data

Authors: Imelda Trejo, Nicolas Hengartner

Abstract: …of asymptomatic individuals for the current Coronavirus 2019 outbreak in eight American Countries: the United States of America, Brazil, Mexico, Argentina, Chile, Colombia, **Peru**, and Panama, from January 2020 to May 2021. Our analysis reveals that consistently, about 40-60% of the infections were not observed in the American outbreaks. The two exception are… ▽ More

Submitted 12 August, 2021; **v1** submitted 9 December, 2020; **originally announced** December 2020.

MSC Class: 92B15; 92D30; 62P10

35. arXiv:2010.16331 [pdf] physics.ins-det

Gas Emission Measurement System from Chilla-Juliaca -Peru

Authors: J. Mendoza Montoya, A. Olsson, S. - G. Mårtensson, K. J. Huanca Zea, A. R. Rojas Calla, J. Chilo

Abstract: In many countries around the world, most of the waste use to be disposed of to landfills, this generate public concern about the health effects of emissions. Landfill gases are produced by the natural bacterial decomposition of waste and it is about half of methane, with the remainder mostly carbon dioxide and minor amounts of other gases. Real-time measurement and modelling of emissions gases in… ▽ More

Submitted 30 October, 2020; **originally announced** October 2020.

Comments: Poster presentation at 22nd IEEE NPSS Real Time Conference, Oct 12-23, 2020

36. arXiv:2010.04877 [pdf, other] cs.CY cs.SI

Analysis of Users Reaction around Impeachment in Peru using Twitter

Authors: Josimar Edinson Chire Saire, Esteban Wilfredo Vilca Zuñiga

Abstract: …generated many problems and show other hidden issues in countries in South America. Every government analyzed his own context and decided which health policies would be used. **Peru** is a country in the middle of South America region, the first reported case was on March 6. Besides, a lockdown was established in ground borders, sea and air. Peruvian government… ▽ More

Submitted 12 October, 2020; **v1** submitted 9 October, 2020; **originally announced** October 2020.

37. arXiv:2009.07906 [pdf, other] physics.optics doi 10.1364/OE.410371

Temporal mode transformations by sequential time and frequency phase modulation for applications in quantum information science

Authors: James Ashby, Valerian Thiel, Markus Allgaier, Peru D'Ornellas, Alex O. C. Davis, Brian J. Smith

Abstract: Controlling the temporal mode shape of quantum light pulses has wide ranging application to quantum information science and technology. Techniques have been developed to control the bandwidth, allow shifting in the time and frequency domains, and perform mode-selective beam-splitter-like transformations. However, there is no present scheme to perform targeted multimode unitary transformations on t… ▽ More

Submitted 16 September, 2020; **originally announced** September 2020.

38. arXiv:2008.07000 [pdf, other] eess.IV cs.CV cs.LG

Spontaneous preterm birth prediction using convolutional neural networks

Authors: Tomasz Włodarczyk, Szymon Płotka, Przemysław Rokita, Nicole Sochacki-Wójcicka, Jakub Wójcicki, Michał Lipa, Tomasz Trzciński

Abstract: An estimated 15 million babies are born too early every year. Approximately 1 million children die each year due to complications of preterm birth (PTB). Many survivors face a lifetime of disability, including learning disabilities and visual and hearing problems. Although manual analysis of ultrasound images (US) is still prevalent, it is prone to errors due to its subjective component and comple… ▽ More

Submitted 21 August, 2020; **v1** submitted 16 August, 2020; **originally announced** August 2020.

Comments: Accepted at MICCAI Workshop on Perinatal, Preterm and Paediatric Image analysis (PIPPI) 2020, Lima, **Peru**

39. arXiv:2008.04887 [pdf, other] cs.SI cs.LG physics.data-an physics.soc-ph

doi 10.1371/journal.pone.0244409

Impact of natural disasters on consumer behavior: case of the 2017 El Nino phenomenon in Peru

Authors: Hugo Alatrista-Salas, Vincent Gauthier, Miguel Nunez-del-Prado, Monique Becker

Abstract: El Nino is an extreme weather event featuring unusual warming of surface waters in the eastern equatorial Pacific Ocean. This phenomenon is characterized by heavy rains and floods that negatively affect the economic activities of the impacted areas. Understanding how this phenomenon influences consumption behavior at different granularity levels is essential for recommending strategies to normaliz… ▽ More

Submitted 11 August, 2020; **originally announced** August 2020.

40. **arXiv:2007.12199** **[pdf, other]** eess.IV physics.med-ph doi 10.1007/978-3-030-59713-9_12

T2 Mapping from Super-Resolution-Reconstructed Clinical Fast Spin Echo Magnetic Resonance Acquisitions

Authors: Hélène Lajous, Tom Hilbert, Christopher W. Roy, Sébastien Tourbier, Priscille de Dumast, Thomas Yu, Jean-Philippe Thiran, Jean-Baptiste Ledoux, Davide Piccini, Patric Hagmann, Reto Meuli, Tobias Kober, Matthias Stuber, Ruud B. van Heeswijk, Meritxell Bach Cuadra

Abstract: Relaxometry studies in preterm and at-term newborns have provided insight into brain microstructure, thus opening new avenues for studying normal brain development and supporting diagnosis in equivocal neurological situations. However, such quantitative techniques require long acquisition times and therefore cannot be straightforwardly translated to in utero brain developmental studies. In clinica… ▽ More

Submitted 23 July, 2020; **originally announced** July 2020.

Comments: 11 pages, 4 figures, 1 table, 1 supplement, to appear in Proceedings in Medical Image Computing and Computer Assisted Intervention (MICCAI), **Peru**, October 2020

41. **arXiv:2007.09203** **[pdf, other]** astro-ph.SR astro-ph.IM doi 10.1088/1674-4527/21/6/145

CALLISTO Facilities in Peru: Spectrometers Commissioning and Observations of Type III Solar Radio Bursts

Authors: J. A. Rengifo, V. Loaiza-Tacuri, J. Bazo, W. R. Guevara Day

Abstract: The Astrophysics Directorate of CONIDA has installed two radio spectrometer stations belonging to the e-CALLISTO network in Lima, **Peru**. Given their strategic location near the Equator, it is possible to observe the Sun evenly throughout the whole year. The receiver located at Pucusana, nearby the capital city of Lima, took data from October 2014 until August… ▽ More

Submitted 1 March, 2021; **v1** submitted 17 July, 2020; **originally announced** July 2020.

Comments: 11 pages, 9 figures

42. **arXiv:2007.08920** **[pdf, other]** cs.CV cs.LG eess.IV

Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity

Authors: Mandy Lu, Kathleen Poston, Adolf Pfefferbaum, Edith V. Sullivan, Li Fei-Fei, Kilian M. Pohl, Juan Carlos Niebles, Ehsan Adeli

Abstract: Parkinson's disease (PD) is a progressive neurological disorder primarily affecting motor function resulting in tremor at rest, rigidity, bradykinesia, and postural instability. The physical severity of PD impairments can be quantified through the Movement Disorder Society Unified Parkinson's Disease Rating Scale (MDS-UPDRS), a widely used clinical rating scale. Accurate and quantitative assessmen… ▽ More

Submitted 17 July, 2020; **originally announced** July 2020.

Comments: Accepted as a conference paper at MICCAI (Medical Image Computing and Computer Assisted Intervention), Lima, **Peru**, October 2020. 11 pages, LaTeX

43. **arXiv:2007.02482** **[pdf, other]** eess.IV cs.CV

Automatic semantic segmentation for prediction of tuberculosis using lens-free microscopy images

Authors: Dennis Núñez-Fernández, Lamberto Ballan, Gabriel Jiménez-Avalos, Jorge Coronel, Mirko Zimic

Abstract: Tuberculosis (TB), caused by a germ called Mycobacterium tuberculosis, is one of the most serious public health problems in **Peru** and the world. The development of this project seeks to facilitate and automate the diagnosis of tuberculosis by the MODS method and using lens-free microscopy, due they are easier to calibrate and easier to use (by untrained perso… ▽ More

Submitted 5 July, 2020; **originally announced** July 2020.

Comments: ML for Global Health Workshop at ICML 2020

44. arXiv:2007.01979 [pdf] q-bio.PE stat.AP

Excess deaths hidden 100 days after the quarantine in Peru by COVID-19

Authors: Ronal Arela-Bobadilla

Abstract: Objective: To make an estimate of the excess deaths caused by COVID-19 in the non-violent mortality of **Peru**, controlling for the effect of quarantine. Methods: Analysis of longitudinal data from the departments of… ▽ More

Submitted 3 July, 2020; **originally announced** July 2020.

Comments: in Spanish

45. arXiv:2006.16424 [pdf, other] cs.SI cs.CV doi 10.1016/j.tourman.2020.104165

Learning Patterns of Tourist Movement and Photography from Geotagged Photos at Archaeological Heritage Sites in Cuzco, Peru

Authors: Nicole D. Payntar, Wei-Lin Hsiao, R. Alan Covey, Kristen Grauman

Abstract: …associated with visuality and heritage tourism to identify travel patterns across a known archaeological heritage circuit, and quantify visual culture and experiences in Cuzco, **Peru**. Leveraging large-scale in-the-wild tourist photos, our goals are to (1) understand how the intensification of tourism intersects with heritage regulations and social media, aidi… ▽ More

Submitted 29 June, 2020; **originally announced** June 2020.

Comments: Accepted to Tourism Management

46. arXiv:2005.10216 [pdf, other] nucl-th doi 10.1088/1361-6471/abab4f

Future of Nuclear Fission Theory

Authors: Michael Bender, Remi Bernard, George Bertsch, Satoshi Chiba, Jacek Dobaczewski, Noel Dubray, Samuel Giuliani, Kouichi Hagino, Denis Lacroix, Zhipan Li, Piotr Magierski, Joachim Maruhn, Witold Nazarewicz, Junchen Pei, Sophie Peru, Nathalie Pillet, Jorgen Randrup, David Regnier, Paul-Gerhard Reinhard, Luis Robledo, Wouter Ryssens, Jhilam Sadhukhan, Guillaume Scamps, Nicolas Schunck, Cedric Simenel , et al. (8 additional authors not shown)

Abstract: There has been much recent interest in nuclear fission, due in part to a new appreciation of its relevance to astrophysics, stability of superheavy elements, and fundamental theory of neutrino interactions. At the same time, there have been important developments on a conceptual and computational level for the theory. The promising new theoretical avenues were the subject of a workshop held at the… ▽ More

Submitted 2 November, 2020; **v1** submitted 20 May, 2020; **originally announced** May 2020.

Comments: 86 LaTeX pages, 3 figures, 331 references, version published as Topical Review in Journal of Physics G

Journal ref: J. Phys. G: Nucl. Part. Phys. 47 (2020) 113002

47. arXiv:2004.02386 [pdf, other] stat.AP

Modelling death rates due to COVID-19: A Bayesian approach

Authors: Cristian Bayes, Victor Sal y Rosas, Luis Valdivieso

Abstract: Objective: To estimate the number of deaths in **Peru** due to COVID-19. Design: With a priori information obtained from the daily number of deaths due to CODIV-19 in China and data from the Peruvian authorities, we constructed a predictive Bayesian non-linear model for the number of deaths in… ▽ More

Submitted 7 April, 2020; **v1** submitted 5 April, 2020; **originally announced** April 2020.

Comments: 12 pages, 4 Figures, and 2 tables

48. arXiv:2003.12522 [pdf, ps, other] nucl-ex nucl-th doi 10.1103/PhysRevC.101.064609

Reexamination of ^{6}Li scattering as a Probe to Investigate the Isoscalar Giant Resonances in Nuclei

Authors: J. C. Zamora, C. Sullivan, R. G. T. Zegers, N. Aoi, L. Batail, D. Bazin, M. Carpenter, J. J. Carroll, I. Deloncle, Y. D. Fang, H. Fujita, U. Garg, G. Gey, C. J. Guess, M. N. Harakeh, T. H. Hoang, E. Hudson, N. Ichige, E. Ideguchi, A. Inoue, J. Isaak, C. Iwamoto, C. Kacir, N. Kobayashi, T. Koike , et al. (15 additional authors not shown)

Abstract: Inelastic ^{6}Li scattering at 100 MeV/u on ^{12}C and ^{93}Nb have been measured with the high-resolution magnetic spectrometer Grand Raiden. The magnetic-rigidity settings of the spectrometer covered excitation energies from 10 to 40 MeV and scattering angles in the range $0^\circ < \theta_{\rm lab.} < 2^\circ$. The isoscalar giant monopole resonance was selectively excited in the prese… ▽ More

Submitted 27 March, 2020; **originally announced** March 2020.

Comments: 6 Figures

Journal ref: Phys. Rev. C 101, 064609 (2020)

49. arXiv:2001.10744 [pdf, other] hep-th doi 10.1088/2399-6528/ab90c2

Forces Between Kinks in φ^8 Theory

Authors: Peru d'Ornellas

Abstract: We investigate the dynamics of the kinks that emerge in a one-dimensional scalar field theory with an octic potential containing a quartic minimum and two quadratic minima. We show analytically that kink-antikink and kink-kink pairs interact with a force that scales with the fourth power of the inter-kink distance, and calculate its strength. This is done using two different techniques. The first... ▽ More

Submitted 17 June, 2020; **v1** submitted 29 January, 2020; **originally announced** January 2020.

Comments: 21 pages, 13 figures

Journal ref: J. Phys. Commun. 4 055014 (2020)

50. arXiv:2001.09035 [pdf, other] nucl-ex nucl-th doi 10.1103/PhysRevC.102.014318

Shape coexistence in the neutron-deficient ^{188}Hg investigated via lifetime measurements

Authors: M. Siciliano, I. Zanon, A. Goasduff, P. R. John, T. R. Rodríguez, S. Péru, I. Deloncle, J. Libert, M. Zielińska, D. Ashad, D. Bazzacco, G. Benzoni, B. Birkenbach, A. Boso, T. Braunroth, M. Cicerchia, N. Cieplicka-Oryńczak, G. Colucci, F. Davide, G. de Angelis, B. de Canditiis, A. Gadea, L. P. Gaffney, F. Galtarossa, A. Gozzelino , et al. (19 additional authors not shown)

Abstract: Shape coexistence in the $Z \approx 82$ region has been established in mercury, lead and polonium isotopes. Even-even mercury isotopes with $100 \leq N \leq 106$ present multiple fingerprints of this phenomenon, which seems to be no longer present for $N \geq 110$. According to a number of theoretical calculations, shape coexistence is predicted in the ^{188}Hg isotope. The ^{188}Hg nucleus wa... ▽ More

Submitted 22 February, 2020; **v1** submitted 24 January, 2020; **originally announced** January 2020.

Comments: v1: 13 pages, 10 figures, comparison between IBM-CM and SCCM calculations; v2: 16 pages, 13 figures, discussion on the mixing amplitudes from the experimental B(E2) values, comparison between SCCM and 5DCH calculations

Journal ref: Phys. Rev. C 102, 014318 (2020)

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